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PATENT APPLICATION  
Serial Number: 10/691,277  
Attorney Docket Number: TFI 1848**PLEASE AMEND THE CLAIMS AS FOLLOW:**

1. (Currently Amended) A computing system comprising:
- a network coupling a first computing subsystem and a second computing subsystem;
- wherein the second computing subsystem provides sending of streaming data packets containing digital media to the first computing subsystem;
- wherein the first computing subsystem comprising a first processing subsystem providing provides means for: logic
- (a) for processing of streaming data packets, according to defined rules for processing streaming data packets; and
- (b) for generation and selectively sending of security tag vectors; and
- a second subsystem comprising a second processing subsystem
- (a) receiving of for sending the streaming data packets containing digital media from to the first-second computing subsystem,
- (b) processing of the streaming data packets containing digital media to provide at least one of audio playing on a sound device and a video playing on a display device for receiving the security tag vectors, and
- (c) for providing logic for validating the received generating of security tags vectors responsive to a defined validation logic said processing of streaming data packets and sending the security tags to the second subsystem; and
- wherein the second computing subsystem provides means for:
- (a) receiving the security tags from the first computing subsystem, and
- (b) providing processing logic for validating the received security tags from the first computing subsystem.
- wherein a successful validation determines that the respective security tags were properly generated responsive to said processing of streaming data packets, and

wherein a failed validation determines that the respective security tags were improperly generated responsive to said processing of streaming data packets.

2. (Currently Amended) The system as in Claim 1, wherein the second computing subsystem further comprises a transmission and forwarding controller responsive to the processing logic for validating, for performing at least one of the following:

for (a) stopping the sending of the streaming data packets containing digital media to the first computing subsystem responsive to determination of the respective failed validation; and

(b) stopping the forwarding of further streaming data packets containing digital media to the first computing subsystem responsive to determination of the defined respective failed validation logic of the selectively transmitted security tag vectors.

3. (Currently Amended) The system as in Claim 1, wherein the rules of processing are defined by at least one of: a content management subsystem, a digital right management subsystem, and predefined policy rules associated with the content~~second subsystem is further comprised of a forwarding controller for stopping the forwarding of the streaming data packets responsive to the defined validation logic of the selectively transmitted security tag vectors.~~

4. (Currently Amended) The system as in Claim 1, further comprising: a defined sequence of decryption keys; and

wherein portions of the defined sequence of decryption keys are sent, one portion at a time, from the second computing subsystem to first computing subsystem, responsive to the defined successful validation of the processing logic of the selectively transmitted security tag vectors for validating the received security tags from the first computing subsystem.

5. (Currently Amended) The system as in Claim 1, wherein the processing of streaming data packets on the first computing subsystem is further responsive to ~~accomprised of processing logic;~~ and wherein the processing logic is further comprised of at least one of: a privileges table, a privileges decision-tree, pseudo random rendering logic, a streaming data packet header processing privileges decision-tree, a security tag processing logic, a streaming data packet identification processing logic, a secure time-stamp processing logic, a processing of streaming data packets with secure time-stamps, watermarking information processing, fingerprinting information processing, stenographic information processing, data embedding information processing, digital signature information processing, and a processing of streaming data packets with secure time-stamps that is responsive to UTC (coordinated universal time).

6. (Currently Amended) The system as in Claim 1, wherein the processing of streaming data packets on the first computing subsystem ~~is constructed with~~ utilizes codes and parameters ~~in accordance with~~ defining and expressing at least one of: privileges, authorizations, access rights, and entitlements as expressed in XrML (Extensible Rights Markup Language).

7. (Currently Amended) The system as in Claim 1, wherein at least one of: ~~the logic of the first processing of streaming data packets subsystem, the defined rules for processing, and the generating of security tags vector generation~~ are further characterized as responsive to a at least one of:

a predefined schedule, a secure time-stamp, renewable codes and parameters, updated codes and parameters, a predefined schedule received from the second computing subsystem, a secure time-stamp received from the second computing subsystem, renewable codes and parameters received from the second computing subsystem, updated codes and parameters received from the second computing subsystem, replacement codes and parameters received from the second computing subsystem, a predefined schedule received from a third computing subsystem, a secure time-stamp received from a third computing subsystem, renewable codes and parameters

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received from a third computing subsystem, and updated codes and parameters received from a third computing subsystem.

8. (Currently Amended) The system as in Claim 7, wherein at least one of: selected parts of the logic of the first processing subsystem of the streaming data packets, selected parts of the defined rules for processing, selected parts of the generating of security tags vector generation, selected parts of the renewable codes and parameters, and selected parts of the updated codes and parameters, are provided from an external storage medium.

9. (Currently Amended) The system as in Claim 8, wherein the external storage medium is at least one of: a smart card, a tamper-proof-resistant device, an obfuscated storage, a hidden storage, an encrypted data storage, a removable storage device, a token card, a network interface, a wireless access point, a wireless base station, and a metro card.

10. (Currently Amended) The system as in Claim 1, wherein ~~at least one of: selected parts of the first logic, selected parts of the defined rules for processing of streaming data packets, and selected parts of the generating of security tags vector generation~~ are defined as a plurality of logic modules that are interlocked for streaming data packet processing together with the security tag vector generation to provide concurrent execution.

11. (Currently Amended) The system as in Claim ~~10~~ 1, wherein the display device is at least one of: interlocked is further characterized in that each respective one of the plurality of logic modules is associated with a respective one of a plurality of defined subtasks; wherein ~~the combined plurality of defined subtasks defines the said selected parts of the logic of the first processing subsystem, said selected parts of the defined rules and said selected parts of the security tag vector generation, and~~

wherein all of the logic modules are required to properly perform the respective defined subtask to provide the said selected parts of the logic of the first processing

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~~subsystem, said selected parts of the defined rules and said selected parts of the security tag vector generation~~

an analog display, a digital display, a television, a flat panel display, a screen, a movie screen, a liquid crystal display, a solid state display, a home video system, a computer display, a CRT display, a mobile phone display, a PDA display, a three-dimensional display, a holographic display, a computer monitor, a handheld display, a digital output system, an electronic book display, and an analog output system.

12. (Currently Amended) The system as in Claim 1, further ~~comprises comprising:~~ an update controller separate from the first computing subsystem, and providing at least one of: updated codes, updated parameters, update decryption codes, update decryption keys, update rendering codes, update playing codes, and updated secure time stamp to the first subsystem.

13. (Currently Amended) The system as in Claim 12, further ~~comprises comprising:~~ a security management server (SMS) for providing update information to the update controller.

14. (Currently Amended) The system as in Claim 1, further ~~comprises a renewable controller providing at least one of: updated codes, updated parameters, update decryption codes, update decryption keys, update rendering codes, update playing codes, and updated secure time stamp to the first subsystem~~ wherein the sound device is at least one of: a speaker, a plurality of speakers, a surrounding sound system, ear phones, loudspeakers, a high fidelity sound system, a stereo audio system, a digital output system, and an analog output system.

15. (Canceled)

16. (Currently Amended) The system as in Claim 1, wherein the first computing subsystem is further comprised of cryptographic modules; and

wherein the cryptographic modules provide for at least one of:

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program authentication, user authentication, cryptographic authentication, application authentication, encryption, a secure time-stamp, a digital signature, watermarking information, IPsec (IP Security) functionality, TLS (Transport Layer Security) functionality, and SSL (Secure Sockets Layer) functionality.

17. (Currently Amended) The system as in Claim 1, wherein the second computing subsystem is further comprised of validation modules; and

wherein the validation modules further provide ~~for~~ at least one of:

~~program authentication-checking, user authentication-checking, cryptographic authentication-checking, application authentication-checking, decryption~~encryption, a secure time-stamp, a digital signature-validation, validation-of-watermarking information, IPsec (IP Security) functionality, TLS (Transport Layer Security) functionality, and SSL (Secure Sockets Layer) functionality.

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Currently Amended) The system as in Claim ~~18~~1, wherein the processing of the streaming data packets provides at least one of: the audio playing and the video playing, and further provides~~wherein the media player performs~~ at least one of:

deleting streaming data packets after processing, deleting streaming data packets within a predefined time interval after processing, deleting streaming data packets after a defined number of times of processing, preventing copying of the streaming data packets, preventing printing of the streaming data packets, preventing sending of the streaming data packets, encrypting video rendering of content received in the streaming data packets, pseudo random video rendering of content received in the streaming data

~~packets, encrypting and encrypted video rendering of content stored in the first subsystem, and pseudo-random video rendering of content stored~~  
received in the first subsystem streaming data packets.

22. (Currently Amended) The system as in Claim 181, wherein ~~the media player operates in accordance with~~ at least one of: the audio playing and the video playing operate in accordance with logic based upon at least one of:

XrML (Extensible Rights Markup Language) specifications, trusted computing specifications, trusted computing based principles, validation of watermarking information, IPsec (IP Security) functionality, TLS (Transport Layer Security) functionality, and SSL (Secure Sockets Layer) functionality.

23. (Currently Amended) The system as in Claim 1, wherein the second computing subsystem further includes a media server.

24. (Currently Amended) The system as in Claim 23, wherein ~~there is a plurality of the first computing subsystems, each coupled to the network and receiving streaming data packets from the second computing subsystem, and wherein the media server operation is responsive to the security tag vectors sent from~~ regulates distribution of the streaming data packets to only a predefined number of the plurality of the first computing subsystems.

25. (Currently Amended) The system as in Claim 1, wherein there is a plurality of the first computing subsystems, each coupled to the network and receiving streaming data packets from the second computing subsystem.

26. (Currently Amended) The system as in Claim 25, wherein the second computing subsystem encodes the respective streaming data packets responsive to ~~validating the respective received successful validation of the respective received security tags vectors from the respective~~ one of the plurality of the first computing subsystems.

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27. (Currently Amended) The system as in Claim 26, wherein the streaming data packets are encoded such that any of the plurality of the first computing subsystems in which the validating of their security tags ~~vetors-fails~~ will not thereafter be able to further decode the streaming data packets.

28. (Currently Amended) The system as in Claim ~~26~~25, wherein the streaming data packets are encrypted by the second computing subsystem by using a group encryption scheme such that any of the first computing subsystems in which the validating of their security tags ~~vetors-fails~~ will not be able to further decode the streaming data packets.

29. (Currently Amended) The system as in Claim 26, wherein the streaming data packets are sent using at least one of:

~~Multicast~~multicast, IP (Internet Protocol) ~~Multicast~~multicast, Secure IP  
~~Multicast~~multicast, Group-group Key-key Management-management  
~~Architecture~~architecture, Multimulti-Party-party ~~Nonnon~~-Repudiation-repudiation  
~~Protocol~~protocol, Group-group Communicationscommunications, and Secure-secure  
~~Group-group~~ Communicationscommunications.

30. (Currently Amended) The system as in Claim 1, wherein there is a plurality of second computing subsystems coupled to the network, each sending a respective plurality of streaming data packets to the first computing subsystem.

31. (Currently Amended) The system as in Claim 30, wherein the first computing subsystem sends security tags ~~vetors~~ to the plurality of second computing subsystems for validation.

32. (Currently Amended) The ~~method-system~~ as in Claim 1, wherein the first computing subsystem is at least one of:



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a computer, a wireless device, a handheld device, a Wi-Fi device, a device operating in accordance with IEEE 802.11 family of standards, a device operating in accordance with IEEE 802.15, a device operating in accordance with IEEE 802.16, a 2.5G cellular telephone, a 3G cellular telephone, a 4G cellular telephone, a 5G cellular telephone, a personal computer, a set-top box, a device operating in accordance with UMTS (Universal-universal Mobile-mobile Telephone-telephone Systemsystem), and a device operating in accordance to the IEEE 802.3 family of standards.

33. (Currently Amended) The system as in Claim 1, wherein the second computing subsystem further comprises encryption logic for encrypting streaming data packets prior to sending themthe respective streaming data packets; and

wherein the first computing subsystem ~~logic for processing of streaming data packets~~ further comprises logic for decrypting the streaming data packets.

34. (Currently Amended) The system as in Claim 33, wherein the second computing subsystem provides ~~an encryption~~ a decryption key to the first computing subsystem processing logic.

35. (Currently Amended) The system as Claim 34, wherein the encryption key is provided for at least one of: periodically, at random times, at predefined time intervals, responsive to validating the ~~received-security tags-vectors~~, and at predefined times derived from coordinated universal time (UTC).

36. (Currently Amended) The system as in Claim 33, wherein the first computing subsystem further comprises logic for generating and sending encryption keys to the second computing subsystem from at least one of the following: a smart card external device and a trusted platform module (TPM); and

wherein the second computing subsystem uses the encryption keys for encrypting the streaming data packets prior to sending them.

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37. (Currently Amended) A method for ~~authenticated-authenticating operation between on~~  
~~data flows between~~ at least a first computing element and a second computing element, the  
method comprising:

sending of data to the first computing element from the second computing  
element;

receiving the data from in the first computing element;

processing the data on the first computing element responsive to an operational  
logic module, and generating security tags vectors in the first computing element  
responsive to an associated tag generation module;

wherein the associated tag generation module is only executable concurrently  
with the respective operational logic module in the first computing element;

wherein the processing provides playing that provides at least one of: an input to  
an audio device and an input to a video display;

sending the security tags vectors to the second computing element from the first  
computing element; and

validating-processing the security tags vectors in the second computing element to  
determine one of:

successful validation responsive to validating that the processing  
compliant communication of the data in the first computing element was  
processed by the operational logic module operating concurrently with the  
generating the security tags by the associated tag generation, and

failed validation responsive to validating that the processing of the data in  
the first computing element was not processed by the operational logic module  
operating concurrently with the generating the security tags by the associated tag  
generation; and

stopping sending further data to the first computing element responsive to the  
failed validation.

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38. (Currently Amended) The method as in Claim 37, further comprising:
- providing a plurality of software logic modules and parameters operable stand-alone to provide a respective plurality of subtask functions ~~as part of the first computing element;~~
  - providing secure integration of the plurality of software logic modules and parameters to provide a combined functionality ~~as part of the first computing element;~~
  - interlocking the plurality of software logic modules and parameters into a single logic program ~~as part of the first computing element~~ that is only operable to concurrently execute the plurality of software logic modules; and
  - providing the combined functionality ~~only when~~ responsive to the plurality of subtask functions ~~are executed~~ concurrently executing responsive to the single logic program ~~as part of~~ at the first computing element.
39. (Currently Amended) The method as in Claim ~~38~~37, further comprising: ~~producing wherein the~~ generating security tags forms a pseudo-random sequence of security tags ~~vectors by the first computing element.~~
40. (Currently Amended) The method as in Claim 39, further comprising:
- producing the pseudo-random sequence of security tags ~~vectors~~ utilizing computation ~~by~~ according to at least one of:
    - applying a pseudo-random generator, applying a pseudo-random function, applying a cryptographic function, applying an encryption function, applying a scrambling subroutine, applying an authentication function, applying a digital signing function, applying a cryptographic hash function, applying a subroutine, applying a computational logic module, applying a symmetric cryptography function, applying an asymmetric cryptography function, employing a cryptographic key, employing a cryptographic seed, employing an encrypted software, employing an obfuscated software, employing a hidden program, employing watermarking information, employing fingerprinting information,

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employing digital signature information, employing logic with a set of parameters, employing a hardware module, employing a trusted platform module (TPM), employing a smart card, employing a portable device, and employing a distributed protocol.

41. (Canceled)

42. (Canceled)

43. (Currently Amended) The method as in Claim 38, further comprising:  
an external smart card device that is part of the first computing element, and wherein selected modules and parameters of the plurality of software logic modules and parameters reside on the external smart card device.

44. (Original) The method as in Claim 38, wherein selected ones of the parameters are at least one of: an encryption key, a decryption key, and an authentication parameter.

45. (Currently Amended) The method as in Claim 38, further comprising:  
~~renewing selected modules and parameters~~ ones of the plurality of software logic modules and parameters.

46. (Currently Amended) The method as in Claim 38, further comprising:  
~~replacing selected modules and parameters~~ ones of the plurality of software logic modules and parameters.

47. (Currently Amended) The method as in Claim 45, wherein the renewing is performed in at least one of:

periodically, at random times, at predefined times, at predefined times derived from coordinated universal time (UTC), responsive to receiving data by the first

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computing element, responsive to sending the security tags ~~vectors~~, and responsive to sending data by the second computing element.

48. (Currently Amended) The method as in Claim 38, ~~further comprising:~~ wherein the data is stored in a memory in the first computing element responsive to the receiving the data in the first computing element; the method further comprising:

erasing the data from the memory by in the first computing element by the single logic program as part of in the first computing element.

49. (Currently Amended) The method as in Claim 48, wherein the memory is at least one of: a solid state device, random access memory, a main memory, a secondary memory, a magnetic storage device, and an optical storage device.

50. (Currently Amended) The method as in Claim 48, wherein the erasing the data is performed responsive to at least one of:

after a predefined time, after the data was has been output to an output device, and after the data was has been output a predefined number of times to an output device.

51. (Currently Amended) The method as in Claim 37, wherein the first computing element is ~~in~~ comprised of at least one of:

a computer, a wireless device, a handheld device, a Wi-Fi device, a device operating in accordance with IEEE 802.11, a device operating in accordance with IEEE 802.15, a device operating in accordance with IEEE 802.16, 2.5G cellular telephone, a 3G cellular telephone, a 4G cellular telephone, a 5G cellular telephone, a personal computer, a computing subsystem, a set-top box, a device operating in accordance with UMTS (Universal Mobile Telephone System), and a device operating in accordance with IEEE 802.3 family of standards.

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52. (Currently Amended) A method of providing content protection in communicating of streaming data packets, the method comprising:

defining within a first computing subsystem, defined rules for processing;  
receiving the streaming data packets containing content, in the first computing subsystem;

processing of the streaming data packets in the first computing subsystem according to defined rules for processing;

generating security tags ~~veeters~~ responsive to execution of the defined rules for processing;

sending the security tags ~~veeters~~ from the first computing subsystem to a second computing subsystem;

providing defined validation logic in the second computing subsystem relating to said generating of security tags;

processing, in the second computing subsystem, the received security tags ~~veeters~~, responsive to the defined validation logic to provide respective validated security tags ~~veeters~~; and

processing in the second computing subsystem the validated security tags ~~veeters~~ and the received security tags ~~veeters~~ to determine whether the generating security tags in the first computing subsystem was properly generated responsive to execution of the defined rules for processing at compliant communication of the streaming data packets to the first computing subsystem from a third subsystem.

53. (Currently Amended) The method as in claim 52, wherein the content is representative of at least one of: a movie, a book, a music piece, a concert, a 3D movie, a sport event, a text file, and a multimedia file;

wherein the content is divided into predefined number of parts, and

wherein each ~~subset of the~~ parts is associated with a decryption key.

54. (Currently Amended) A ~~communication~~ method for authentication of ~~communications~~ ~~of~~ generation of communicated data packets, the method comprising:

transmitting data packets from a second computing subsystem to a first computing subsystem;

receiving the streaming data packets for processing in the first computing subsystem;

defining rules of processing;

wherein the processing provides playing that provides at least one of: an input to an audio device and an input to a video display;

generating security tags vectors responsive to the streaming data packets responsive to the rules of processing and the data packets;

~~transmitting data packets from a second subsystem to a first subsystem;~~

~~receiving the transmitted streaming data packets for processing in the first subsystem;~~

sending respective ones of the security tags vectors from the first computing subsystem to the second computing subsystem, responsive to the streaming data packets and the rules of processing; and

processing the received security tags vectors in the second computing subsystem to assure-validate that the processing in the first computing subsystem is compliant with operating according to the defined rules of processing.

55. (Currently Amended) The method as in Claim 54, further comprising:

validating the received security tags vectors in the second computing subsystem responsive to a second rules of processing; and

processing interlocking the validating of the received security tags vectors in the second computing subsystem to validate execution of a correct logic module providing with the defining of the rules of processing in the first computing subsystem, to validate that the processing of the streaming data packets in the first computing subsystem is

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according to the respective defined rules for processing utilizing the respective correct logic module to assure compliant communication.

56. (Currently Amended) A computer system for providing remotely authenticated operations remote authentication of processing of content, the system comprising:

a tag generator operating from an initial generator state to locally generate a sequence of security tags vectors responsive to concurrent execution upon a sequence of content processing steps;

means providing for transmission of the sequence of security tags vectors;

a tag verifier operating from an initial verification state to generate a sequence of comparison security tags vectors for selective comparison to the sequence of the security tags vectors; and

means for coordinating the initial generator state and the initial verifier state prior to the execution on the sequence of content processing steps,

wherein the tag verifier selectively provides valid comparison tags responsive to the means for coordinating, wherein the valid comparison tags are utilized to provide authentication of the execution of the sequence of content processing steps.

57. (Currently Amended) The system as in Claim 56, wherein the tag generator includes a sequence number as part of the security tags vector.

58. (Currently Amended) The system as in Claim 57, wherein the tag verifier generates a comparison sequence number for selective comparison to the sequence number that is part of the security tags vector.

59. (Currently Amended) The system as in Claim 57, wherein the sequence number is used for at least detecting a loss of a respective security tag vector loss.



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60. (Currently Amended) The system as in Claim 56, wherein the tag generator provides a secure time-stamp as part of each of the security tags-vector.

61. (Currently Amended) The system as in Claim 60, wherein the tag verifier generates a comparison secure time-stamp for selective comparison to the secure time-stamp that is part of each of the security tags-vector.

62. (Currently Amended) The system as in Claim 56, further comprising:  
means for remotely downloading of codes and parameters for use with the tag generator and the sequence of content processing steps.

63. (Currently Amended) The system as in Claim 62, wherein the codes and parameters are used to perform at least one of: processing streaming data packets to provide the sequence of content processing steps, and generating security tags-vectors.

64. (Currently Amended) A system for providing secure integration of separate software logic modules to provide a combined functionality, the system comprising:

a first processing-computing subsystem, wherein the first computing subsystem provides:

(a) receiving for processing of streaming data packets from a media server associated with the first computing subsystem, and providing processing of the streaming data packets, responsive to defined rules for processing of the streaming data packets, and

(b) for-generation-generation of security tags and selectively sending of the security tags-vectors to said media server associated with the first computing subsystem;

the system further comprising:

wherein the first processing-subsystem is further comprised of a plurality of software logic modules each operable stand-alone to provide a respective one of a

plurality of subtask functions associated with operations on the first computing subsystem; and

a transformation controller for providing interlocking of the plurality of software logic modules into a single logic program that provides a combined functionality;

wherein the combined functionality is only provided by the first computing subsystem when the plurality of subtask functions are executed concurrently responsive to the single logic program.

65. (Currently Amended) The system as in Claim 64, wherein the single logic program is written to be immune to reverse generation.

66. (Currently Amended) The system as in Claim 64, wherein one of the software logic modules provides a ~~cryptographic~~ function for producing a pseudo-random sequence of security tags at the first computing subsystem;

wherein the pseudo-random sequence of security tags are sent to the second computing subsystem for verification of correct processing on the first computing subsystem; and

wherein the streaming data packets are sent to the first computing subsystem from said media server, only upon successful verification that the combined functionality was executed on the first computing subsystem.

67. (Currently Amended) The system as in Claim 66, wherein producing the pseudo-random sequence of security tags utilizes computation by at least one of:

applying a pseudo-random generator, applying a pseudo-random function, applying a cryptographic function, applying an encryption function, applying a scrambling subroutine, applying an authentication function, applying a digital signing function, applying a cryptographic hash function, applying a subroutine, applying a computational logic module, applying a symmetric cryptography function, applying an asymmetric cryptography function, employing a cryptographic key, employing a

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cryptographic seed, employing an encrypted software, employing an obfuscated software, employing a hidden program, employing logic with a set of parameters, employing a hardware module, employing a smart card, employing a portable device, and employing a distributed protocol.

68. (Currently Amended) The system as in Claim 64, wherein one of the software logic modules provides logic to process the content of ~~received~~ the streaming data packets.

69. (Currently Amended) The system as in Claim 68, wherein logic to process the content of ~~received~~ the streaming data packets performs at least one of:

video rendering of the content on a video display, playing the content via audio speakers, displaying the content on an e-book output device, outputting the content to an output device, and outputting the content to an analog output device.

70. (Currently Amended) The system as in Claim 64, wherein one of the software logic modules provides rules of playing of audio and video content.

71. (Currently Amended) The system as in Claim 70, wherein the rules of playing of audio and video content ensure at least one of:

the content is not printed; the content is not sent to a third party; the content is destroyed after being displayed on a video monitor; the content is being destroyed after being played via an audio speakers; the content is erased from all memory storage devices after being displayed on a video monitor; the content is erased from all memory storage devices after being played via an audio speakers; the content is erased from all memory storage devices after being used via an e-book output device; the content is erased from all memory storage devices after a predefined time interval; the content is erased from all memory storage devices at a time defined time by coordinated universal time (UTC); the content is used in accordance with rights defined using XrML (Extensible Rights Markup Language) specifications; the content is used in accordance

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with trusted computing specifications; the content is used in accordance with trusted computing based principles; and the content is used in accordance with at least one of the following: watermarking information, stenographic information, fingerprinting information, embedded data and digital signature information.

72. (Currently Amended) The system as in Claim 70, wherein ~~at least one of the rules of playing provide at least one of:~~ content processing and determines determining a renewable software for content processing.

73. (Currently Amended) The system as in Claim 72, wherein the renewable software for content processing is at least one of:

a number of times the content can be displayed, a number of times the content can be played, a time signal, a UTC time signal, a digitally signed time signal, a software element, a predefined task, a code for processing content signature, and a code for watermarking the content.

74. (Currently Amended) The system as in Claim 72, wherein the renewable software for content processing is obtained from at least one of:

a second computing subsystem, a second computing element, predefined logic, an external rule controller, a security management system, via a network interface, a network appliance, a server, a network management system, a firewall, a local computation computing subsystem, a smart card device, a trusted platform module (TPM) device, and a portable device.

75. (Currently Amended) The system as in Claim 64, wherein one of the software logic modules provides a cryptographic function for producing a pseudo-random sequence of security tags-veeters; and

wherein one of the software logic modules provides logic to process and play audio and video content.

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76. (Original) The system as in Claim 64, wherein one of the software logic modules provides a cryptographic function for verifying at least one of: watermarking, embedded data and fingerprinting.

77. (Currently Amended) The system as in Claim 64, further comprising:  
a source of interlocking parameters, and  
wherein the transformation controller is further comprised of means for combining the software logic modules according to defined interlocking logic responsive to the interlocking parameters.

78. (Original) The system as in Claim 77, wherein the source of interlocking parameters is generated by at least one of:

a random source, a cryptographic key, and a defined table and location in memory.

79. (Currently Amended) The system as in Claim 77, wherein the transformation controller determines an intermixture of the subtask functions of the plurality of software logic modules into the single logic program to provide the combined functionality.

80. (Currently Amended) The system as in Claim 79, wherein the intermixture of the subtask functions of the plurality of software logic modules into the single logic program to provide the combined functionality can be provided in a defined plurality of different ways; and  
wherein each of the defined plurality of different ways provides a different ~~one~~ version of the single logic program providing the combined functionality.

81. (Currently Amended) The system as in Claim 80, wherein the intermixture of the subtask functions of the plurality of software logic modules into the single logic program to provide the combined functionality is further comprised of at least one of:

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obfuscation, encryption, replication, adding dummy code, addition of redundant control, renaming of variables, splitting a procedure into multiple sub-procedure, dictionary transformation, compilation, interpretation, cryptographic transformation, digital signing, and scrambling.

82. (Currently Amended) The system as in Claim 81, wherein the replication is comprised of repetitions of the software logic modules into an oversize program comprising the single logic program therein-embedded therein.

83. (Currently Amended) The system as in Claim 82, wherein each of the repetitions is made active separately to define an active single program within the oversize program which acts as the single logic program.

84. (Currently Amended) The system as in Claim 64, wherein the transformation controller further generates external software modules for linked operation with the single logic program as required for the combined functionality.

85. (Currently Amended) The system as in Claim 84, further comprising:  
means for transmitting the external software modules to a separate computing subsystems, and  
wherein the external software modules are executed in at least one of the separate computing subsystems to provide at least one of: update information and renewable information coupled to the single logic program.

86. (Original) The system as in Claim 85, wherein the means for transmitting utilizes at least one of: encryption, authentication, and digital signing.

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87. (Original) The system as in Claim 85, wherein the update information is at least one of: change data, change executable code, change pattern, change order and pseudo-change of dummy code.

88. (Original) The system as in Claim 85, wherein the renewable information is at least one of:

renewable content processing, time signal, a UTC time signal, a digitally signed time signal, a digital cache for transmission of trusted content processing, and a cryptographic key for marking trusted content processing.

89. (Original) The system as in Claim 64, further comprising:  
means for transmitting the single logic program to a primary computing system.

90. (Original) The system as in Claim 89, wherein the means for transmitting utilizes at least one of: encryption, authentication, watermarking, and digital signing.

91. (Original) The system as in Claim 64, wherein security verification information is generated by the transformation controller, for utilization by separate security tag verification logic in a separate subsystem which validates the security tags.

92. (Original) The system as in Claim 64, wherein one of the software logic modules provides security services.

93. (Original) The system as in Claim 92, wherein the security services provide for at least one of:

user authentication, user sign-on, data packet authentication, user login, applying a user's cryptographic key, applying an organization's cryptographic key, group encryption, watermarking validation, and digital signing.

94. (Original) The system as in Claim 92, wherein the security services further provide for applying cryptographic transformations based on keys belonging to a primary computing system.

95. (Original) The system as in claim 94, wherein the primary computing system provides for execution of the single logic program.

96. (Currently Amended) A method of providing controlled signaling, the method comprising:

providing defined rules of defining at least one of: transmission, forwarding, and operation on a first computing subsystem;

processing-receiving streaming data packets from a media server, at the first computing subsystem in accordance with the defined rules;

processing of the streaming data packets on the first computing subsystem, in accordance with the defined rules in the first computing subsystem;

generating a security tag vector responsive to validating the processing in accordance with the defined rules in the first computing subsystem; and

constructing a signal responsive to computing with transmitting the security tag vector onto a communications path from the first computing subsystem;

receiving the security tag from the communications path on a second computing subsystem; and

validating the security tag on the second computing subsystem so as to validate that the processing of the streaming data packets is in accordance with the defined rules, and that said processing of the streaming data packets took place at the first computing subsystem only upon successful validation.

97. (Canceled)

98. (Canceled)



99. (Currently Amended) The method as in Claim 96, further comprising:

receiving ~~at least some~~selected parts of the defined rules ~~of at least one of: transmission, forwarding, and operation, on the first computing subsystem~~ from a separate rules controller.

100. (Currently Amended) The method as in Claim 96, further comprising:

determining a renewable software module for at least one of: transmission, forwarding, and operation responsive to at least one of the defined rules on the first computing subsystem of at least one of: transmission, forwarding, and operation on the first computing subsystem.

101. (Currently Amended) The method as in Claim 96, wherein the generating the security tag comprises at least one of:

applying a pseudo-random generator, applying a pseudo-random function, applying a cryptographic function, applying an encryption function, applying a scrambling subroutine, applying an authentication function, applying a digital signing function, applying a cryptographic hash function, applying a subroutine, applying a computational logic module, applying a symmetric cryptography function, applying an asymmetric cryptography function, employing a cryptographic key, employing a cryptographic seed, employing an encrypted software, employing an obfuscated software, employing a hidden program, employing logic with a set of parameters, employing a hardware module, employing a smart card, employing a portable device, and employing a distributed protocol.

102. (Currently Amended) The method as in Claim ~~97~~96, wherein the communications path ~~connects~~couples a network interface with at least one of:

a computer, a wireless device, handheld device, a Wi-Fi device, a device operating in accordance with IEEE 802.11, a device operating in accordance with IEEE 802.15, a device operating in accordance with IEEE 802.16, a 2.5G cellular telephone, a

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3G cellular telephone, a 4G cellular telephone, a 5G cellular telephone, a personal computer, a set-top box, a device operating in accordance with UMTS (Universal Mobile Telephone System), and a device operating in accordance to IEEE 802.3 family of standards.

103. (New) The system as in claim 96, wherein the validating confirms that the first computing subsystem is operating in compliance with at least one of digital right management rules and content management system rules.

104. (New) The system as in claim 96, wherein the communication path is comprised of defined communications of at least one of: a VPN, an ATM, a FR, a CPN, a content delivery network (CDN), an ISP, a shared media, a firewall, a local area network, an Internet, a metropolitan area network, a SAN, a link to application server, a link to web server, a link to data base server, a link to Internet server, a link to network server, a public network, an enterprise network, and a carrier network.